

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
 WATER ANALYSIS RESULTS

FIELD RESULTS	HYDROLAB – YSI 6600				IN-HOFF CONE		
TIME	TEMP (°C)	PH	DISSOLVED OXYGEN (mg/l)	SPECIFIC CONDUCTANCE (umhos/cm)	Settleable Solids (ml/l)		
					10 min	30 min	60 min
07:00							
08:00							
09:00	21.6	7.7	1.5	3710	1.0	1.0	1.0
10:00	21.7	7.7	1.1	3697	1.0	1.7	1.8
11:00	21.9	7.7	1.3	3739	1.2	1.2	1.4
12:00	22.1	7.8	2.6	3728	0.7	0.8	0.9
13:00	22.5	7.8	2.4	3744	0.7	0.9	1.0
14:00	22.9	7.8	1.8	3594	0.8	0.9	0.9
15:00	23.2	7.7	1.7	3719	0.7	1.0	1.0
16:00	23.4	7.8	1.6	3808	0.7	0.8	0.8
17:00	23.5	7.8	1.1	3820	0.3	0.8	1.0
18:00	23.4	7.8	1.2	3827	0.4	0.7	0.8
19:00	23.1	7.8	1.0	3805	1.0	1.4	1.6
20:00	23.0	7.8	0.6	3821	0.6	1.1	1.6
21:00	23.0	7.6	0.4	3748	4.0	4.6	4.6
22:00	22.7	7.8	0.6	3810	2.5	3.0	4.0
23:00	22.7	7.8	0.8	3833	1.2	1.2	1.2
24:00	22.7	7.8	1.4	3851	0.5	0.7	0.7
01:00	22.8	7.8	1.0	3841	0.5	0.7	0.7
02:00	23.0	7.8	0.9	3852	0.5	0.6	0.7
03:00	23.0	7.8	1.1	3856	0.6	0.7	0.7
04:00	23.0	7.8	1.2	3858	0.5	0.5	0.6
05:00	23.0	7.8	1.2	3877	0.5	0.5	0.5
06:00	23.0	7.8	1.2	3884			
APRIL AVERAGE	22.8	7.8	1.3	3792	0.9	1.2	1.3
LAST 12 MONTHS AVE.	21.40	7.71	1.61	3,924	0.24	0.31	0.33

FIELD OBSERVATIONS:

0700 – 1000 The Ambient temperature ranged from 27 °C to 29.8 °C. The sky is clear & sunny. Watercolor is olive green. There is a mild septic odor. No foam. Light breeze (2mph N)

1100 – No changes. Ambient temperature is 32.9 °C

1200 – 1400 The Ambient temperature ranged from 37.9 °C to 40.5 °C. No other changes, except lot of trash and particulate matter was observed during this time on the river.

1500 – 1900 No changes. Ambient temperature ranged from 40 °C to 30.9 °C. Watercolor is blackish.

2000 – 2200 Ambient temperature is ranged from 24.1 °C to 20.1 °C. Little of foam. No other changes

2300 - Ambient temperature is 19.7 °C. No other changes

2400 - Ambient temperature is 19.2 °C. No foam. No other changes

0100 – 600 Ambient temperature ranged from 17 °C to 14 °C. Little of foam and occasional trash. No other changes

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REG. WATER QUALITY CONTROL BOARD LAB			FECAL COLIFORM RESULTS (MPN/100ML)			
COLLECTION TIME	STORET CODE	ANALYSIS METHOD	APRIL 2001	12 MONTHS AVE	MAX VALUE	MIN VALUE
11:00	316315	Multiple Tube Fermentation	110,000	257,500	500,000	40,000
12:00	316315	Multiple Tube Fermentation	140,000	459,167	2,400,000	40,000
13:00	316315	Multiple Tube Fermentation	170,000	269,167	1,100,000	40,000
13:30	316315	Multiple Tube Fermentation	210,000	95,833	500,000	110,000
14:00	316315	Multiple Tube Fermentation	220,000	323,333	1,100,000	110,000
3:00	316315	Multiple Tube Fermentation	300,000	133,333	500,000	300,000
4:00	316315	Multiple Tube Fermentation	230,000	85,833	330,000	170,000
5:00	316315	Multiple Tube Fermentation	500,000	106,667	340,000	220,000
5:30	316315	Multiple Tube Fermentation	800,000	77,500	130,000	130,000
6:00	316315	Multiple Tube Fermentation	1,100,000	172,500	500,000	170,000

DHS - SOUTHERN CALIFORNIA LABORATORY				CONSTITUENT RESULTS (MG/L) ¹			
	STORET CODE	US EPA METHOD	REPORTING LIMITS	APRIL 2001	12 MONTHS AVERAGE	MAX VALUE	MIN VALUE
MRAS	38260	425.1	0.025	1.68	1.440	3.620	0.250
Total Phosphate as P	665	365.2	0.01	1.54	1.771	2.660	0.130
Phenol	32730	420.1	0.002	NA ²	0.003	0.009	0.005
Cyanide	720	335.2	0.01	NA	0.003	0.020	0.010
Ammonia-Nitrogen (NH ₃ -N)	610	350.2	0.05	2.92	6.13	7.470	3.520
Nitrate - Nitrogen (NO ₃ -N)	71850	353.2	0.2	0.1	0.42	1.700	0.130
Nitrite - Nitrogen (NO ₂ -N)	630	353.2	0.03	0.06	0.03	0.160	0.090
Hardness as (CaCO ₃)	900	130.2	1	NA	782	907	697
Total Alkalinity as (CaCO ₃)	410	310.1	1	NA	278	323	251
Bicarbonate (HCO ₃)	00440	310.1	1	NA	340	394	306
Total Filter Residue (TDS)	70300	160.1	10	NA	2512	2910	2090
Total Suspended Solids	530	160.2	10	NA	52	74.00	35.00
Turbidity	82078	180.1	0.1	NA	20	38.90	9.40
BOD	310	405.1	2	26	39	130.00	14.00
COD	340	410.4	5	57	47.5	60.00	31.50

DHS - SOUTHERN CALIFORNIA LABORATORY				TRACE METALS RESULTS (UG/L) ¹			
TRACE METALS	STORET CODE	US EPA METHOD	REPORTING LIMITS	APRIL 2001	12 MONTH AVERAGE	MAX VALUE	MIN VALUE
As-Arsenic	1002	200.9	2	5	5.2	13.00	3.00
Cd-Cadmium	1027	200.9	1	ND	ND	ND	ND
Cr-Chromium	1034	200.9	10	ND	1.2	14.00	14.00
Cu-Copper	1042	200.9	10	173	24.8	66.00	13.00
Pb-Lead	1051	200.9	10	24	ND	ND	ND
Se-Selenium	1147	200.9	5	ND	ND	ND	ND
Zn-Zinc	1092	289.1	50	380	113.6	221.00	54.00
Hg-Mercury	71900	245.1	1	ND	6.5	77.00	1.30

¹ Composite of eight water samples collected hourly.

² Not analyzed

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CONSTITUENT ³ (ug/l)	STORET CODE	APRIL - 01 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
Benzene	34030	ND ⁴	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	A-012	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	32106	0.55	0.58	1.0	0.97	1.3	1.1	0.81	0.68
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	32105	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	34571	0.74	0.62	1.3	1.1	1.7	0.94	0.95	0.83
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND

³ Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.

⁴ ND = Concentration is reported below the detected limit.

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CONSTITUENT ⁵ (ug/l)	STORET CODE	APRIL - 01 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
cis- & trans-1,3-Dichloropropylene	34561	ND ⁶	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	77223	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	1.0	0.69	1.9	0.51	0.53	ND
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	0.51	ND	ND	ND
Methyl Ethyl Ketone ⁷	81595	ND	ND	ND	ND	2.4	ND	ND	ND
Methyl Isobutyl Ketone ⁸	81596	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	34010	0.53	2.4	7.8	4.9	25	3.1	2.5	2.1
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	77222	ND	ND	0.61	0.68	1.2	ND	ND	ND
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	0.53	ND	ND	ND
1,1,2-Trichlorotrifluoroethane (Freon 13)	81611	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	39175	ND	ND	ND	2.3	ND	ND	ND	ND
m,p-Xylenes	A-014	ND	ND	0.74	0.84	1.6	ND	ND	ND
o-Xylene	77135	ND	ND	ND	0.51	0.89	ND	ND	ND

⁵ Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.

⁶ ND = Concentration is reported below the detected limit.

⁷ Detection Limit is as reported 2.0

⁸ Detection Limit is as reported 2.0